

# An Example of Using An Indexed Dataset (KSDS)

# Creating a VSAM Dataset Using JCL

```
//CREATEKS JOB
//STEP1 EXEC PGM=IDCAMS
//SYSPRINT DD SYSOUT=*
//SYSIN DD *
DEFINE CLUSTER (NAME(KC02170.DATATEST.T08) -
                RECORDS(15 15) -
                RECORDSIZE(80 80) -
                KEYS(6 5) -
                INDEXED) -
        DATA (NAME(KC02170.LAB2.ACCNT.DAT)) -
        INDEX (NAME(KC02170.LAB2.ACCNT.IDX))
/*
/*
```

*Key is 6 bytes, starting at location 5*

*The average record size is 80 bytes (as well as the max)*

*15 Records are initially created*

# Deleting a VSAM Dataset Using JCL

```
000112 //DELVSAM JOB
000120 //STEP1  EXEC PGM=IDCAMS
000130 //SYSPRINT DD SYSOUT=*
000140 //SYSIN   DD *
000400  DELETE  KC02170.LAB2.ACCNT
000900 /*
001000 //
```

# Adding an Account - initial definitions

000700\* file for Reading new account to process

000800     Select AcctsFD

000900     Assign to "Accts"

001000     Access mode is RANDOM

001100     Organization is INDEXED

001110     Record Key is accountNum of AccountData

001200     File Status is AcctsStatus.

001210\*

001300 Data Division.

001400 File Section.

001500 FD AcctsFD.

001700 01 AccountData.

001800   05 creditLimit PIC 9(5).

001900   05 accountNum   PIC X(6).

001910   05 Name        PIC X(10).

001920   05 FILLER      PIC X(59).

# Adding an Account - Procedure

```
003100 Procedure division.  
003300     perform openAccountData.  
003301*  
003302     DISPLAY "Enter new account: "  
003303     DISPLAY "   Limit 9(5), AccountNum x(6), name X(10)"  
003304     ACCEPT NewAccount.  
003310*  
003320     move name of newAccount to name of AccountData.  
003330     move creditLimit of newAccount to creditLimit of AccountData.  
003340     move accountNum of newAccount to accountNum of AccountData.  
003400     write AccountData.  
003700     if AcctsStatus is not equal to "00"  
003800         Display "write Error for Acct " AcctsStatus  
003900     end-if.  
004000  
004110     perform closeAccountData.  
004200     stop run.
```

# Adding an Account - Open/Close

```
004300 OpenAccountData.  
004400     Display "trying to open AcctMast"  
004500     open I-O AcctsFD.  
004600     if AcctsStatus is not equal to "00"  
004700         Display "open Error for Account Status " AcctsStatus  
004800     end-if.  
004900     exit.  
005000*  
005100 CloseAccountData.  
005200     close AcctsFD.  
005300     if AcctsStatus is not equal to "00"  
005400         Display "close Error for AcctMast " AcctsStatus  
005500     end-if.  
005600     Display "done closing AccMast"  
005700     exit.
```

Print all Accounts

# Print All Accounts - Initial Definitions

000700\* file for Reading new account to process

000800     Select optional AcctsFD

000900     Assign to "Accts"

001000     Access mode is SEQUENTIAL

001100     Organization is INDEXED

001110     Record Key is AccountNum of AccountData

001200     File Status is AcctsStatus.

001210\*

001300 Data Division.

001400 File Section.

001500 FD AcctsFD.

001700 01 AccountData.

001800     05 creditLimit PIC 9(5).

001900     05 accountNum   PIC X(6).

001910     05 Name        PIC X(10).

001920     05 FILLER     PIC X(59).



# Print All Accounts - Loop through

```
003100 Procedure division.  
003200  
003300     perform openAccountData.  
003301*  
003302     move 1 to moreAccounts.  
003304     perform until moreAccounts = 0  
003306         read acctsFD  
003307             at end move 0 to moreAccounts  
003308             not at end perform outputAccount  
003309     end-read  
003320     if AcctsStatus is not equal to "00"  
003330         Display "read Error for AcctMast " AcctsStatus  
003340         move 0 to moreAccounts  
003350     end-if  
003370 end-perform.  
004110 perform closeAccountData.  
004200 stop run.
```

# Print All Accounts - output a Single Account

```
005800*-----  
005900* output a record in the account master  
006100*  
006200 OutputAccount.  
006300     Display "Account Number: " AccountNum.  
006400     Display "    Credit Limit: " creditLimit.  
006500     Display "    Name: " Name.  
006800     exit.
```

# Printing a Specific Account

# Printing an Account

```
003100 Procedure division.  
003200  
003300    perform openAccountData.  
003301*  
003302    DISPLAY "ENTER ACCOUNT NUMBER X(6)"  
003303    ACCEPT InputAccountNumber.  
003304    move InputAccountNumber to AccountNum.  
003305*  
003306    read acctsFD  
003320    if AcctsStatus is not equal to "00"  
003330        Display "read Error for AcctMast " AcctsStatus  
003340    else  
003341        Perform OutputAccount  
003350    end-if  
004110    perform closeAccountData.  
004200    stop run.
```